

552,444

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



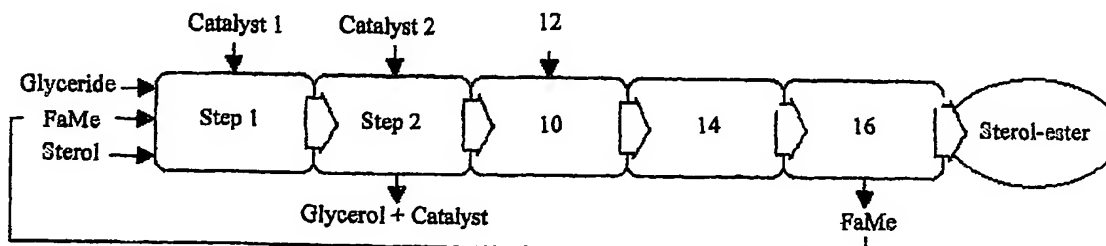
(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/089116 A1

- (51) International Patent Classification⁷: **A23L 1/30**, C11C 3/00, 3/08, 3/10
- (21) International Application Number:
PCT/FI2004/000226
- (22) International Filing Date: 13 April 2004 (13.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20030540 10 April 2003 (10.04.2003) FI
- (71) Applicant (for all designated States except US): **RAISIO BENECOL OY** [FI/FI]; Raisionkaari 55, FI-21200 Raisio (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ORTE, Juha** [FI/FI]; Vehnätie 10, FI-21200 Raisio (FI). **LUTTIKHEDDE, Hendrik** [FI/FI]; Intolantie 9, FI-21260 Raisio (FI). **WESTER, Ingmar** [FI/FI]; Puutarhakatu 11 B 70, FI-20100 Turku (FI). **EKBLOM, Jari** [FI/FI]; Rätiköntie 16, FI-21210 Raisio (FI).
- (74) Agent: **BERGGREN OY AB**; Jaakonkatu 3 A, P.O. Box 16, FI-00101 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PRODUCTION OF A STEROL-RICH COMPOSITION



(57) Abstract: The invention relates to a process for the production of a sterol ester-rich composition. A sterol composition, a glyceride composition, a fatty acid alkyl ester and an esterification catalyst are combined to form a reaction mixture. Esterification of sterol(s) takes place in the mixture, providing sterol ester(s). The new process is rapid and has a high level of conversion. The invention also relates to a method for recovering food-grade sterol fatty acid ester(s) from a fat mixture.

WO 2004/089116 A1